

1/pts

TI01E001WO/Be00S012/TW/Be/04.09.2000

Dr.med.dent. Rainer Tilse, Bahnhofstrasse 2, 75172 Pforzheim

Method and hand-held device for applying a tooth filling on synthetic resin basis into a cavity of a tooth

Specification:

~~The present invention relates to a method having the features defined in the preamble of Claim 1, and to a hand-held device having the features defined in the preamble of Claim 3.~~

Since the time tooth fillings made from amalgam have first been discussed because of fears that the mercury contained in them might lead to health problems, an ever increasing number of tooth fillings made from plastic materials have been used. These fillings are made from filling compounds on a synthetic resin basis. It has been known to select as synthetic resin basis a synthetic resin that can be hardened by ultraviolet light, and to embed into that synthetic resin an inorganic powder or a mixture of different inorganic powders as fillers. The higher the proportion of the filler in the filling compound, the higher is the viscosity of the compound, and the lower is the degree of shrinkage during hardening. When preparing direct tooth fillings, it is however difficult to introduce highly viscous, pasty filling compounds into the cavity of the